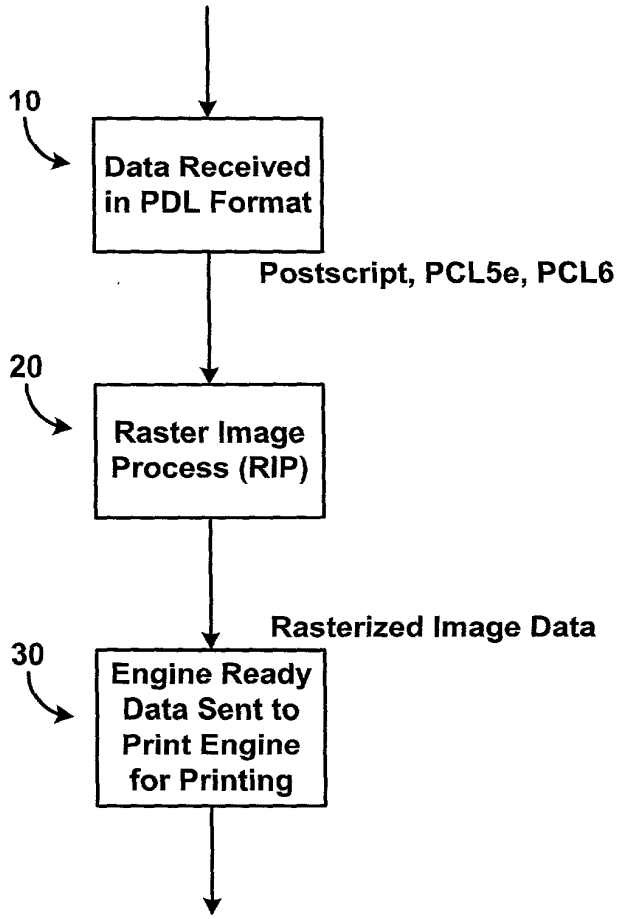

FIG. 1
(Prior Art)

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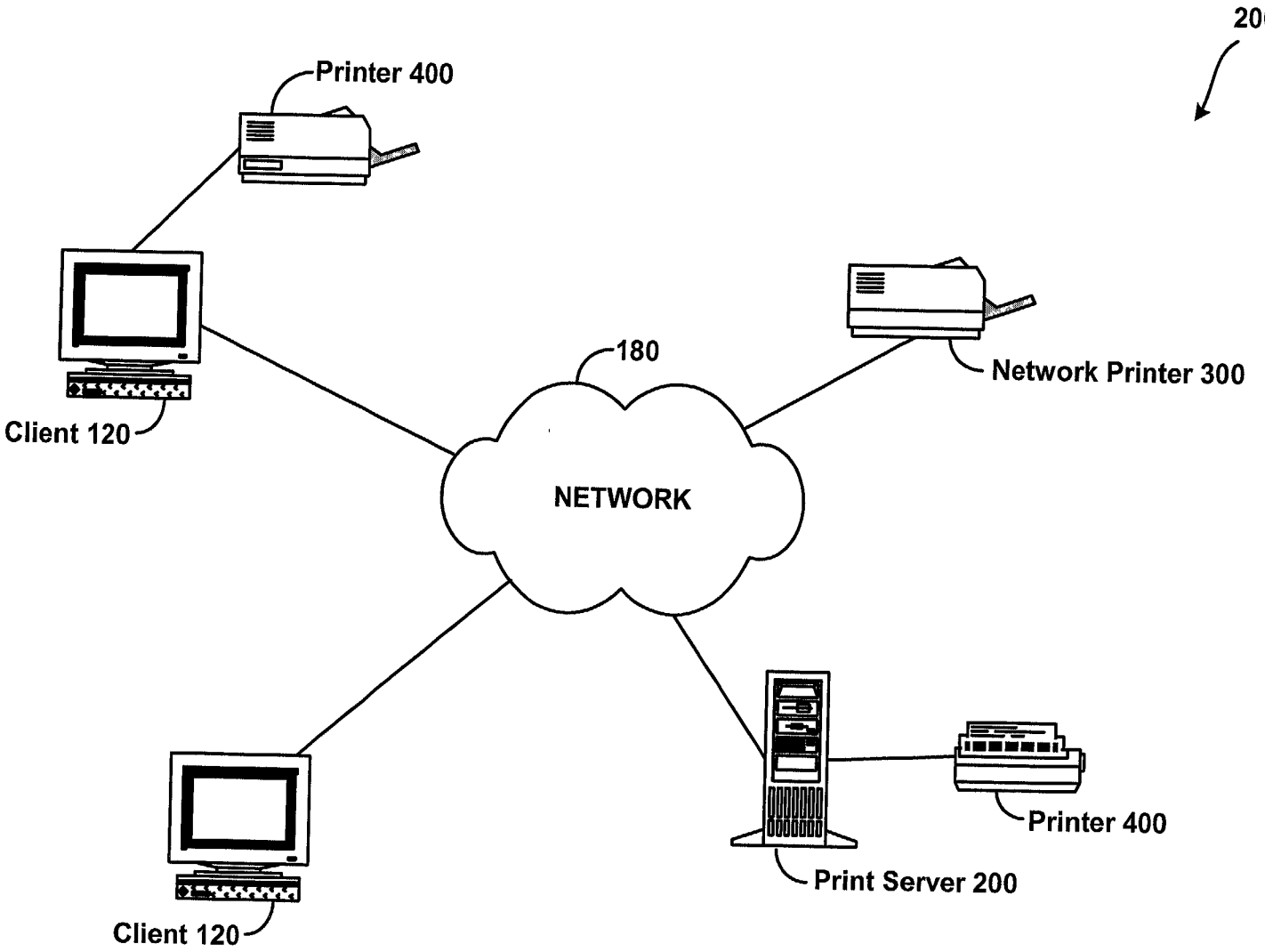

FIG. 2

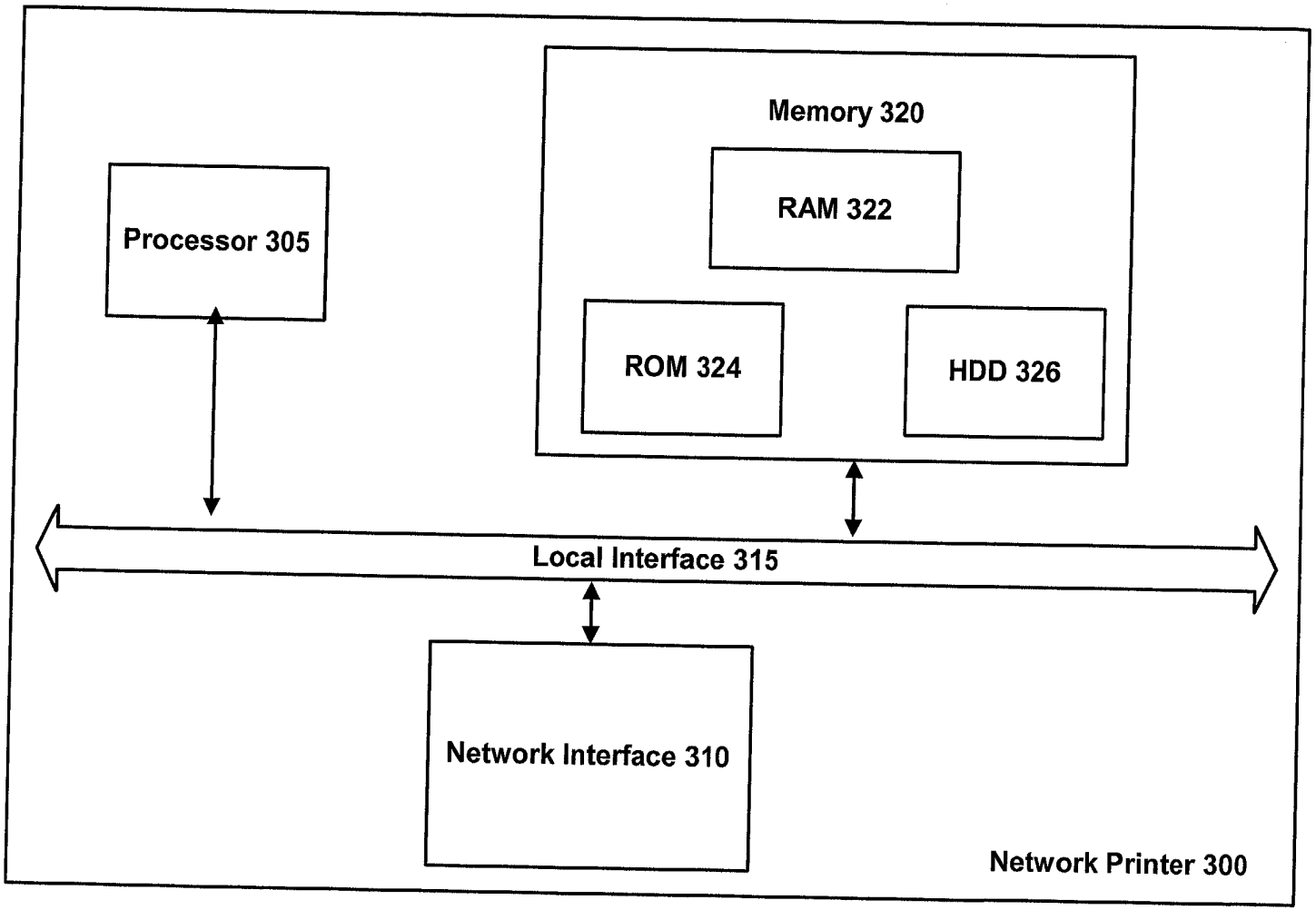
Memory 320
RAM 322
Processor 305
ROM 324
HDD 326
Local Interface 315
Network Interface 310
Network Printer 300

FIG. 3

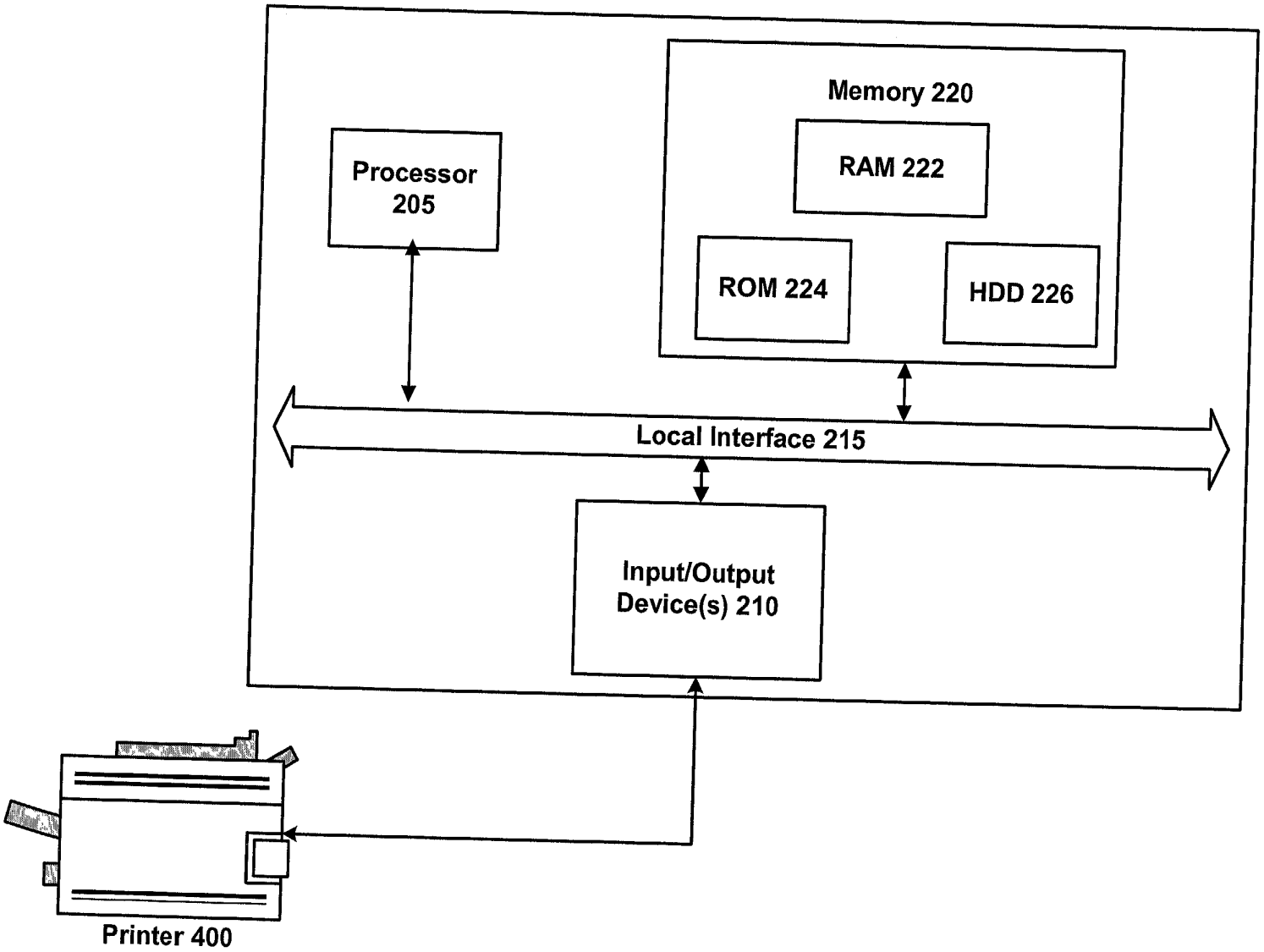
Memory 220
RAM 222
Processor 205
ROM 224
HDD 226
Local Interface 215
Input/Output Device(s) 210
Printer 400

FIG. 4

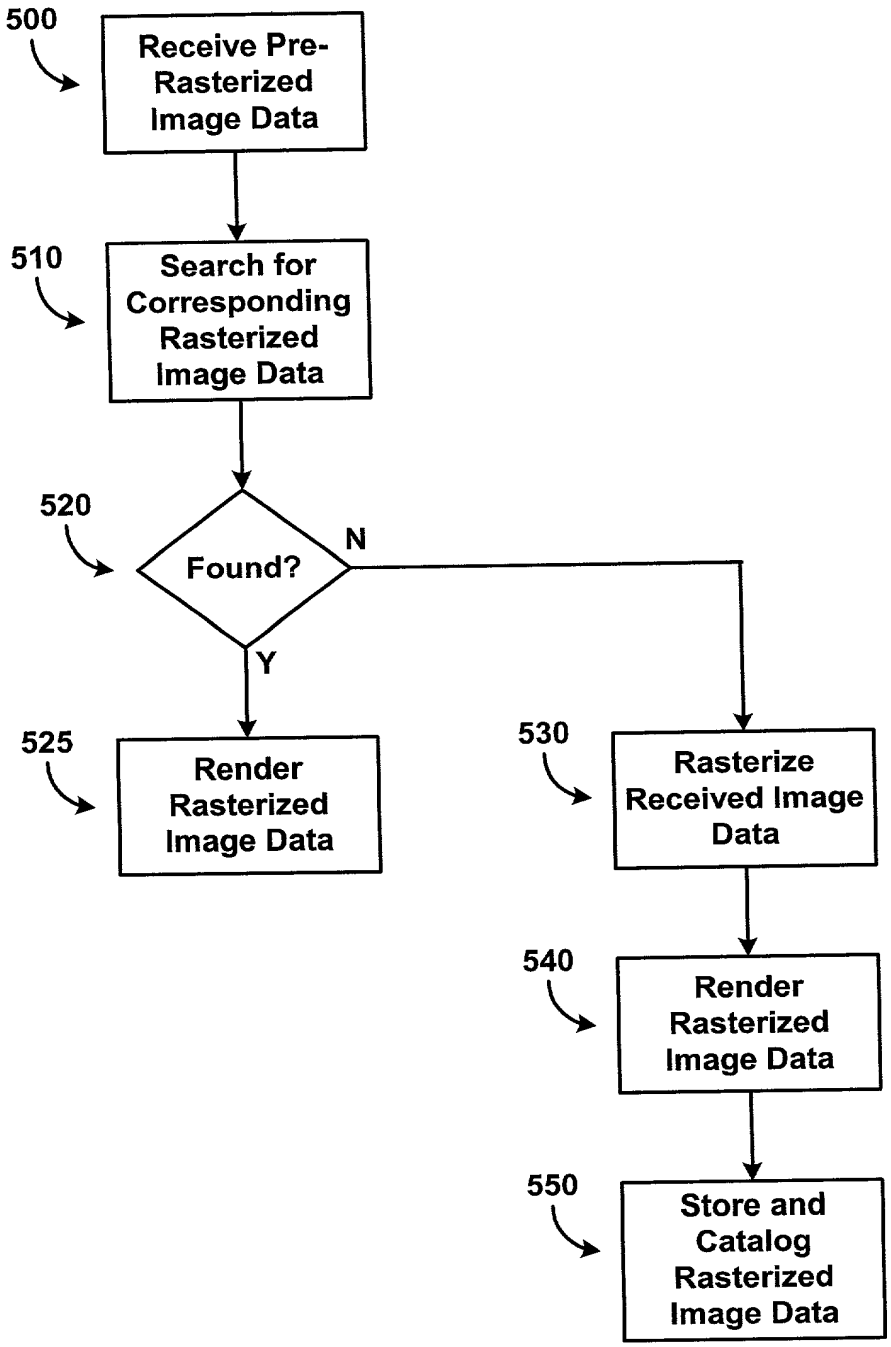
500
Receive Pre-Rasterized Image Data
510
Search for Corresponding Rasterized Image Data
520
Found?
N
Y
525
Render Rasterized Image Data
530
Rasterize Received Image Data
540
Render Rasterized Image Data
550
Store and Catalog Rasterized Image Data

FIG. 5

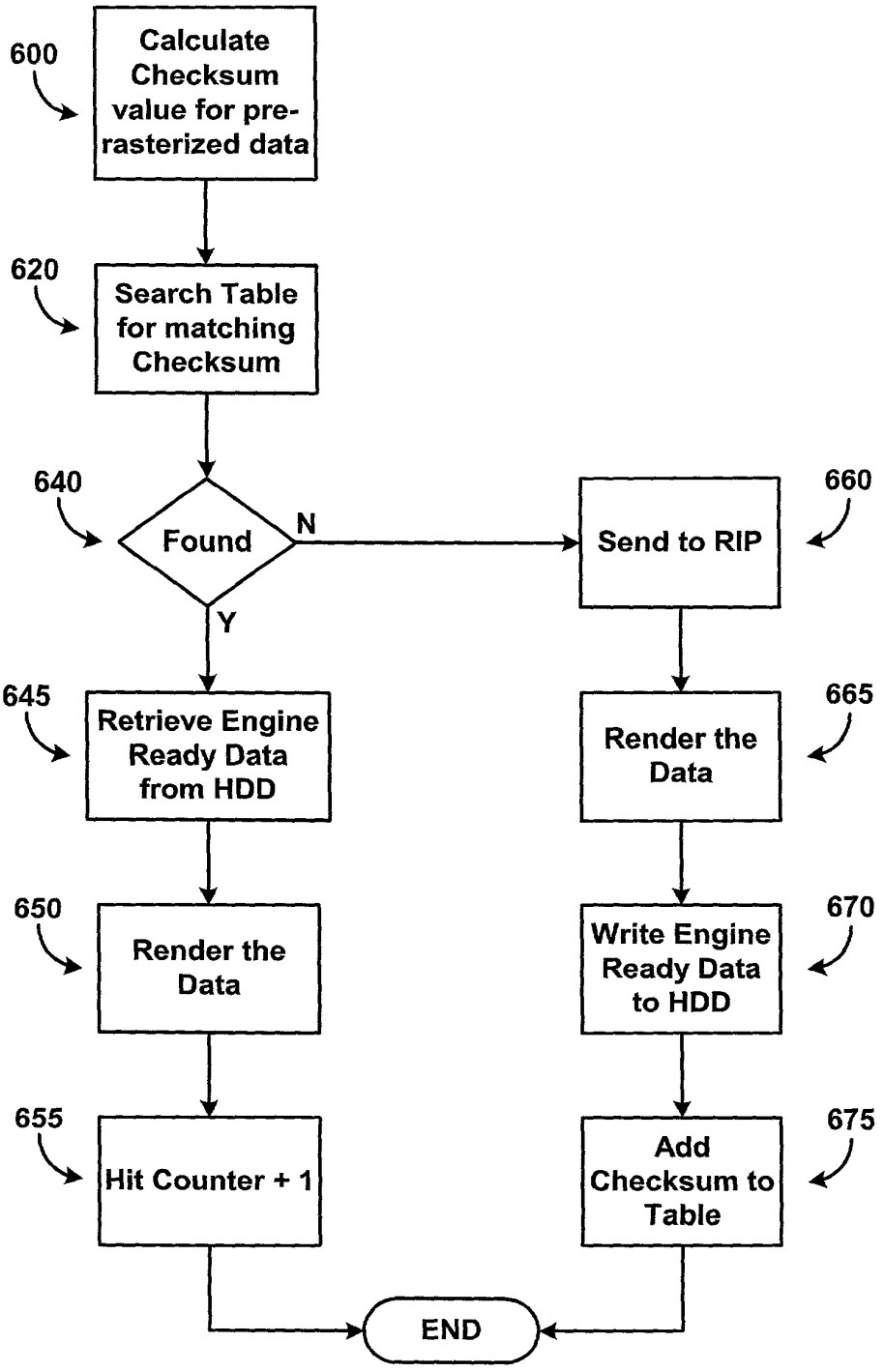
600
Calculate Checksum value for pre-rasterized data
620
Search Table for matching Checksum
640
Found
N
Y
660
Send to RIP
645
Retrieve Engine Ready Data from HDD
665
Render the Data
650
Render the Data
670
Write Engine Ready Data to HDD
655
Hit Counter + 1
675
Add Checksum to Table
END

FIG. 6

FORMAT: 04/27/2004

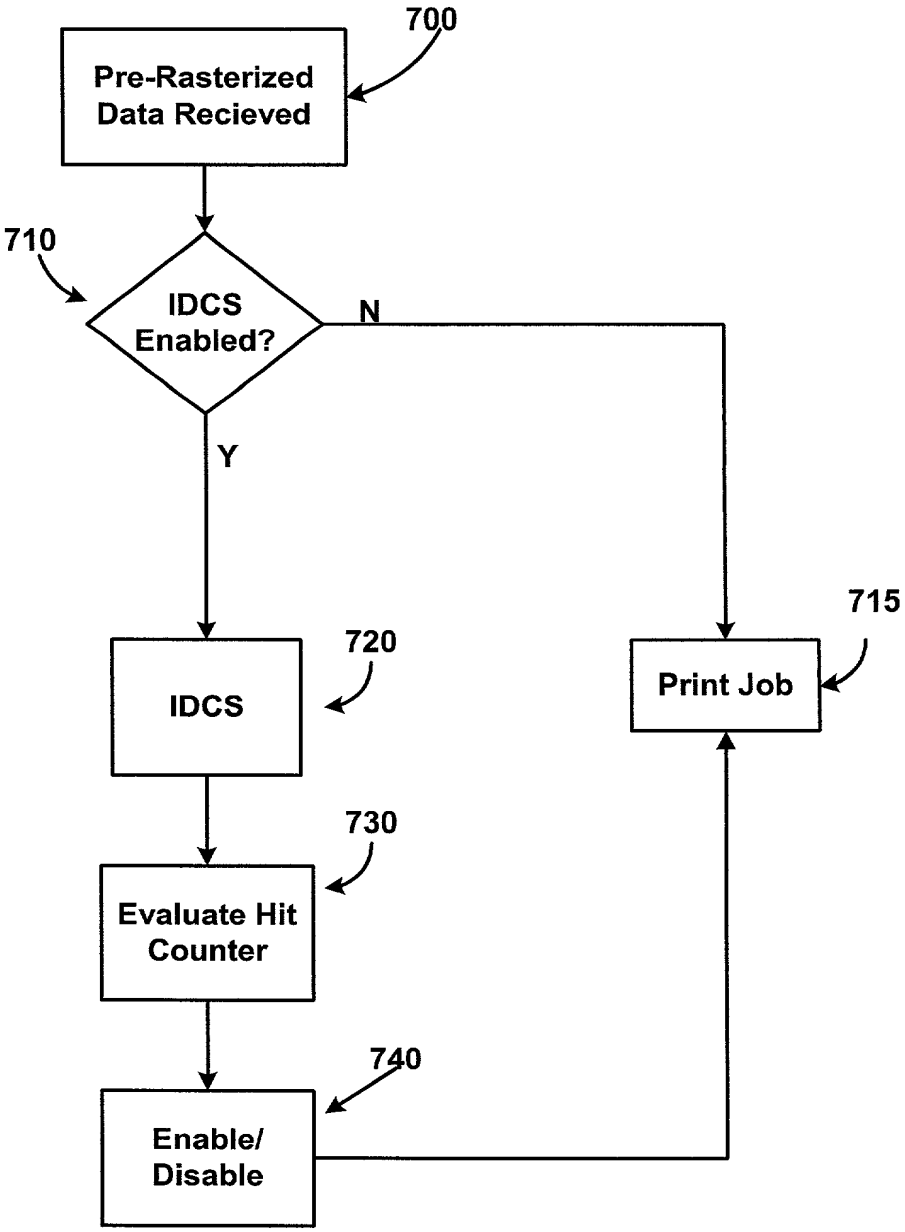

FIG. 7

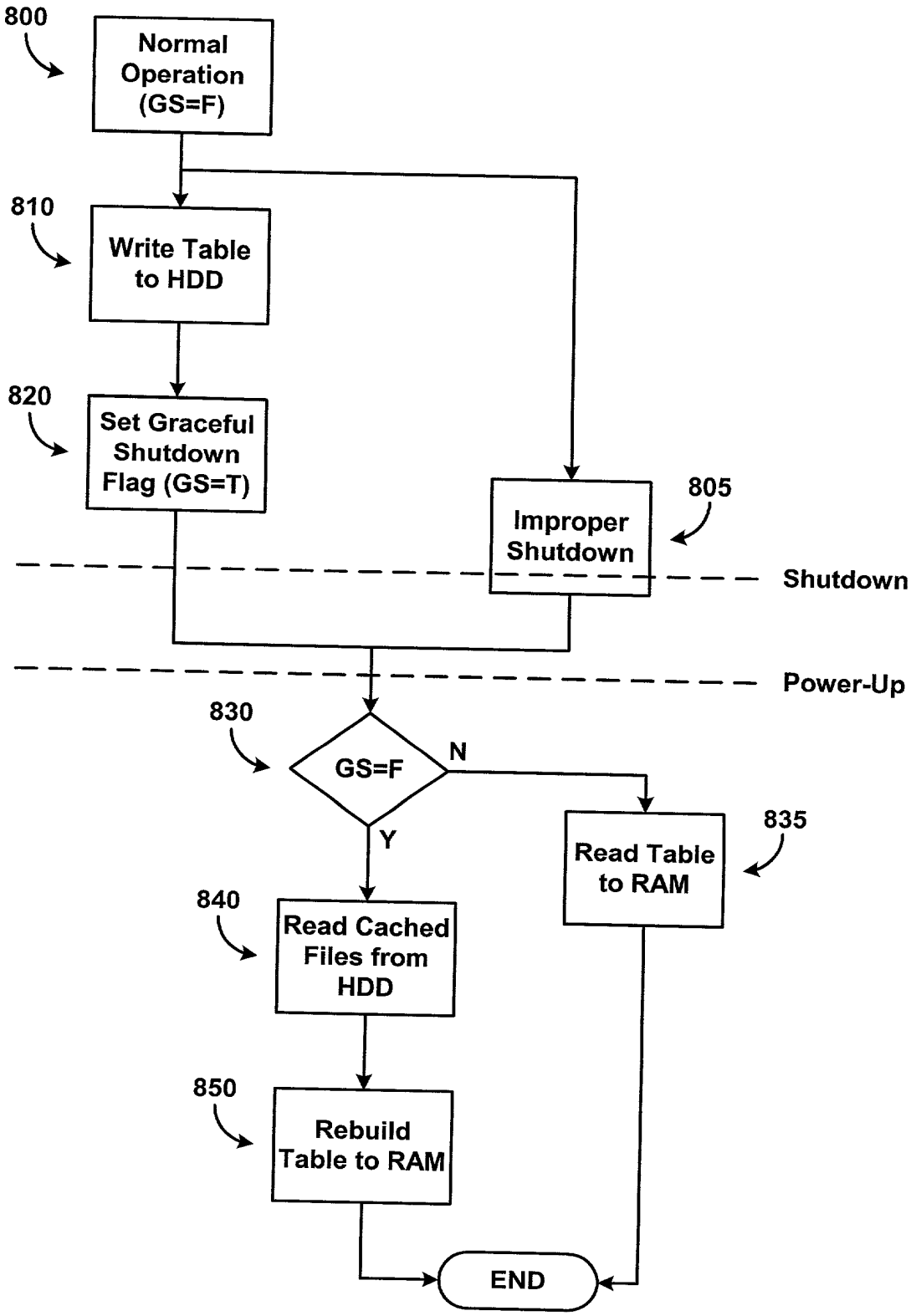
800
Normal Operation (GS=F)
810
Write Table to HDD
820
Set Graceful Shutdown Flag (GS=T)
805
Improper Shutdown
Shutdown
Power-Up
830
GS=F
N
Y
835
Read Table to RAM
840
Read Cached Files from HDD
850
Rebuild Table to RAM
END

FIG. 8